AMENDMENTS TO THE CLAIMS

Listing of claims:

1. (Original): A method of making a device comprising:

forming two electrodes on a substrate in a plane that is substantially parallel to a plane of the substrate;

creating an electric field between the two electrodes; and

forming a waveguide between the two electrodes in the presence of the electric field, wherein the waveguide is formed in the plane of the two electrodes that is substantially parallel to a plane of the substrate.

2. (Original): The method of claim 1, wherein the two electrodes are lithographically-defined on a substrate.

3. (Original): The method of claim 2, wherein the waveguide comprises an organic crystal material.

4. (Amended): The method of claim 3, wherein the organic crystal material comprises an organic molecule comprising:

a ~~doner~~ donor portion, and

an acceptor portion coupled to the ~~doner~~ donor portion via a conjugated backbone.

Claims 5 -11(Canceled)

12. (Amended): A method of making an electro-optic modulator comprising:

forming two electrodes on a substrate in a plane that is substantially parallel to a plane of the substrate;

depositing a dielectric layer at least partially between the two electrodes;

creating an electric field between the two electrodes;

forming a waveguide over the dielectric layer in the presence of the electric field wherein the waveguide is formed in the plane of the two electrodes that is substantially parallel to a plane of the substrate; and

depositing a top cladding over the waveguide.

13. (Original): The method of claim 12 further comprising:

polishing the waveguide prior to depositing the top cladding.

14. (Original): The method of claim 13 further comprising:

polishing the waveguide down to a top surface of the two electrodes.

15. (Original): The method of claim 12, wherein forming of the waveguide further comprises:

growing a crystal by a controlled cooling of a melt.

16. (Original): The method of claim 15, wherein the crystal comprises an organic molecule comprising a donor, an acceptor, and a conjugated backbone.

17. (Original): The method of claim 12, wherein forming of the waveguide further comprises:

growing a crystal by controlling a rate of evaporation of a solution.

18. (Original): The method of claim 17, wherein the crystal comprises an organic molecule comprising a donor, an acceptor, and a conjugated backbone.

19. (Original): The method of claim 12, wherein forming of the waveguide further comprises:

aligning dipole moments of the waveguide with the electric field as the waveguide crystallizes.

20. (Original): The method of claim 12 further comprising:
applying a voltage to the two electrodes to modulate a light signal in the waveguide.

Claims 21-22 (Canceled)

Claims 23- 28 (Canceled)